

LIST OF CLAIMS

Claim 1. (Currently Amended) A golf ball comprising

a core and

a cover covering the core,

wherein the core is formed from a rubber composition comprising

cis-1,4-polybutadiene and

the cover, having a thickness of 0.5 to 1.5 mm, comprises

polyurethane-based thermoplastic elastomer formed by using nonionic

cycloaliphatic diisocyanate as a base resin selected from the group

consisting of 4,4'-dicyclohexylmethane diisocyanate, 1,3-bis

(isocyanatomethyl)cyclohexane, isophorone diisocyanate, and trans-

1,4-cyclohexane diisocyanate;

and the core has a deformation amount of 2.5 to 4.5 mm, when

applying from an initial load of 98 N to a final load of 1275 N on

the core, and

the golf ball has a deformation amount of 2.4 to 4.0 mm, when

applying from an initial load of 98 N to a final load of 1275 N on

the golf ball.

Claim 2. (Canceled)

Claim 3. (Canceled)

Claim 4. (Previously Presented) The golf ball of claim 1, wherein the core deformation amount is 2.6 to 4.2 mm.

Claim 5. (Previously Presented) The golf ball of claim 1, wherein the core deformation amount is 2.7 to 4.0 mm.

Claim 6. (Previously Presented) The golf ball of claim 1, wherein the thermoplastic elastomer is formed by using 4,4'-dicyclohexylmethane diisocyanate.

Claim 7. (Previously Presented) The golf ball of claim 1, wherein the cover further comprises another thermoplastic elastomer or ionomer resin in an amount of 0 to 40 parts by weight based on 100 parts by weight of the whole resin for the cover.

Claim 8. (Previously Presented) The golf ball of claim 1, wherein the deformation amount for the golf ball is 2.5 to 3.7 mm.

Claim 9. (Previously Presented) The golf ball of claim 1, wherein the deformation amount for the golf ball is 2.6 to 3.4 mm.